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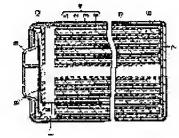
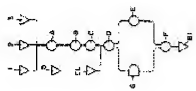
(54) MANUFACTURE OF LITHIUM BATTERY

(57)Abstract:

PURPOSE: To dispense with aging, do with small manufacturing space and manufacture a Li battery having high performance by putting in a pressurized condition after injecting nonaqueous electrolyte into a battery can, and then putting it back in a normal pressure condition.





CONSTITUTION: A positive electrode 1 setting a sheet shape MnO2 as an active material and a negative electrode 2 setting metal Li as an active material are stacked through polypropylene separators 3, or these are wound A together in a spiral shape, so that an electrode group 4 can be formed. This electrode group 4 is inserted into a cylindrical shape battery can 5 having bottom where Ni metal plating is carried on an iron basis material, and furthermore, a lead terminal 6 derived from the negative electrode 2 is welded to the bottom surface of the battery can by means of spot welding. Next, nonaqueous electrolyte EL is injected D from an opening part of the battery can. This battery is put in a pressure device, and is treated by means of pressurization under pressure, for example, being 0.5kg/cm3 higher than normal pressure. Afterwards, it is put back in the normal pressure, and a negative electrode terminal part, where a terminal plate 8 is embedded in the opening part

and a sealing gasket 10 is embedded on the outer periphery of a sealing plate 9, is mounted thereon, and the opening part is caulked inward so that it is sealed up F.